

SEQUENCE LISTING

<110> Ingvar M. Ferby et al.
 <120> PROTEIN WITH CELL PROLIFERATION AND CELL DIVISION MODULATING ACTIVITY AND
 DNA ENCODING SUCH PROTEIN
 <130> 100564-00064
 <140> 09/889,592
 <141> 2001-08-02
 <150> PCT/EP00/00377
 <151> 2000-02-03
 <150> EP 99102172.6
 <151> 1999-02-03
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 <170> Patent-In version 3.1
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 atcaaccctc gggcgggtgt cccctttct aca atg agg cac atg cag agt gta 234
 Met Arg His Met Gln Ser Val
 1 5
 acc cgg gcc agc tcc att tgt ggc agc ggg gtg aag cag gtc att ggc 282
 Thr Arg Ala Ser Ser Ile Cys Gly Ser Gly Val Lys Gln Val Ile Gly
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 aag ggg cat cgg cac gcc cgg gtt gtc gga gag cgc aag gag cac att 330
 Lys Gly His Ser His Ala Arg Val Val Gly Ala Arg Lys Ala Gln Ile
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 ccc gag aga gag gag ttg tca gtc aaa ccc aaa atg gtg cga aat acc 378
 Pro Glu Arg Glu Glu Leu Ser Val Lys Pro Lys Met Val Arg Asn Thr
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 cat ctg aat cta cag ccc cag gag cgc cag gcc ttc tac agg ctg cta 426

His Leu Asn Leu Gln Pro Gln Glu Arg Gln Ala Phe Tyr Arg Leu Leu
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gaa aat gag cag att cag gaa ttc ctt tct atg gac tcc tgt cta agg 474
Glu Asn Glu Gln Ile Gln Glu Phe Leu Ser Met Asp Ser Cys Leu Arg
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Ile Ser Asp Lys Tyr Leu Ile Ala Met Val Leu Ala Tyr Phe Lys Arg
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Ala Ala Gly Leu Tyr Thr Ser Glu Tyr Thr Thr Met Asn Phe Phe Val
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gcc ctg tat ctg gct aat gac atg gag gaa gat gaa gaa gac tat aaa 618
Ala Leu Tyr Leu Ala Asn Asp Met Glu Glu Asp Glu Glu Asp Tyr Lys
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Tyr Glu Ile Phe Pro Trp Ala Leu Gly Asp Ser Trp Arg Glu Leu Phe
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cca caa ttt ttg cgt ctc cgg gac gac ttc tgg gct aaa atg aac tac 714
Pro Gln Phe Leu Arg Leu Arg Asp Asp Phe Trp Ala Lys Met Asn Tyr
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cga gaa gtt gtt tgt cga aac tac tat gat cag gta atc tcc aaa gat 762
Arg Ala Val Val Ser Arg Arg Cys Cys Asp Glu Val Met Ser Lys Asp
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ccc act cat tgg gcc tgg ctg aga gat cgc ccc atg cat cac agc ggg 810
Pro Thr His Trp Ala Trp Leu Arg Asp Arg Pro Met His His Ser Gly
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Pro Gly Leu Thr Pro Ala Ser Cys Thr Leu Cys His Lys Ala Gly Val
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Cys Asp Ser Gly Gly Val Ser His Asn Asn Ser Ser Ser Pro Glu Gln
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Pro Lys Met Val Arg Asn Thr His Leu Asn Leu Gln Pro Gln Glu Arg
50 55 60

Gln Ala Phe Tyr Arg Leu Leu Glu Asn Gln Gln Ile Gln Glu Phe Leu
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Ser Met Asp Ser Cys Leu Arg Ile Ser Asp Lys Tyr Leu Ile Ala Met
85 90 95

Val Leu Ala Tyr Phe Lys Arg Ala Ala Gly Leu Tyr Thr Ser Glu Tyr
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Thr Thr Met Asn Phe Phe Val Ala Leu Tyr Leu Ala Asn Asp Met Glu
 115 120 125

Glu Asp Glu Glu Asp Tyr Lys Tyr Glu Ile Phe Pro Trp Ala Leu Gly
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Asp Ser Trp Arg Glu Leu Phe Pro Gln Phe Leu Arg Leu Arg Asp Asp
 145 150 155 160

Phe Trp Ala Lys Met Asn Tyr Arg Ala Val Val Ser Arg Arg Cys Cys
 165 170 175

Asp Glu Val Met Ser Lys Asp Pro Thr His Trp Ala Trp Leu Arg Asp
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Arg Pro Met His His Ser Gly Ala Met Arg Gly Tyr Leu Arg Asn Glu
 195 200 205

Asp Asp Phe Phe Pro Arg Gly Pro Gly Leu Thr Pro Ala Ser Cys Thr
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Leu Cys His Lys Ala Gly Val Cys Asp Ser Gly Gly Val Ser His Asn
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Asn Ser Ser Ser Pro Glu Gln Glu Ile Phe His Tyr Thr Asn Arg Glu
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Trp Ser Gln Glu Leu Leu Met Leu Pro Pro Glu Leu Leu Leu Asp Pro
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Met Arg His Met	
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Gln Ser Ala Thr Arg Ala Thr Leu Val Cys Gly Ser Gly Val Lys Gln	
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Ile Ile Ala Lys Gly His Pro Asn Thr Arg Val Phe Gly Ala Arg Lys	
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ggc aaa atc cct gag aga gag gtg cta gca gcc aaa ccc aag atc acg	318
Ala Lys Ile Pro Glu Arg Glu Val Leu Ala Ala Lys Pro Lys Ile Thr	
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cgc att aca cat ctc aat cta caa ccc cag gag cgc cag gcc ttt tac	360
Arg Ile Thr His Leu Asn Leu Gln Pro Gln Glu Arg Gln Ala Phe Tyr	
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Arg Leu Leu Glu Asn Glu Leu Ile Gln Glu Phe Leu Ser Met Asp Ser	
70 75 80	
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Cys Leu Lys Ile Ser Asp Lys Tyr Leu Ile Ala Met Val Leu Ala Tyr	
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Phe Val Ala Leu Tyr Leu Ala Asn Asp Met Glu Glu Asp Glu Glu Asp	
120 125 130	
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Tyr Lys Tyr Glu Ile Phe Pro Trp Ala Leu Gly Asp Ser Trp Arg Gln	
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Phe Phe Pro Gln Phe Leu Arg Leu Arg Asp Asp Phe Trp Ala Lys Met	
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Asn Tyr Arg Ala Val Val Ser Arg Arg Cys Cys Asp Glu Val Met Ala	
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 200 205 210

cgg ggt cca ggc ctt aca cca gcc agc tgt gca ctt tgc cat aaa gca 845
 Arg Gly Pro Gly Leu Thr Pro Ala Ser Cys Ala Leu Cys His Lys Ala
 215 220 225

agt gtc tgt gac tct ggt ggg gtg tcc cat gac aac tct tct cca gaa 894
 Ser Val Cys Asp Ser Gly Gly Val Ser His Asp Asn Ser Ser Pro Glu
 230 235 240

caa gag att ttt cac tac acc aat agg gag tgg tcc cag gaa ctt ctc 942
 Gln Glu Ile Phe His Tyr Thr Asn Arg Glu Trp Ser Gln Glu Leu Leu
 245 250 255 260

atc ttg cca cct gaa ctg tta ttg gat ccc gag tct act tat gac atc 990
 Ile Leu Pro Pro Glu Leu Leu Leu Asp Pro Glu Ser Thr Tyr Asp Ile
 265 270 275

cac att ttc cag gaa ccc ttg gtt gga tta gag cca gat ggg gca gcc 1038
 His Ile Phe Gln Glu Pro Leu Val Gly Leu Glu Pro Asp Gly Ala Ala
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 Leu Glu Trp His His Leu
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Pro Lys Ile Thr Arg Ile Thr His Leu Asn Leu Gln Pro Gln Glu Arg
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Gln Ala Phe Tyr Arg Leu Leu Glu Asn Glu Leu Ile Gln Glu Phe Leu
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Ser Met Asp Ser Cys Leu Lys Ile Ser Asp Lys Tyr Leu Ile Ala Met
85 90 95

Val Leu Ala Tyr Phe Lys Arg Ala Gly Leu Tyr Thr Ser Glu Tyr Thr
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Thr Met Asn Phe Phe Val Ala Leu Tyr Leu Ala Asn Asp Met Glu Glu
115 120 125

Asp Glu Glu Asp Tyr Lys Tyr Glu Ile Phe Pro Trp Ala Leu Gly Asp
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Ser Trp Arg Glu Phe Phe Pro Gln Phe Leu Arg Leu Arg Asp Asp Thr
145 150 155 160

Trp Ala Lys Met Asn Tyr Arg Ala Val Val Ser Arg Arg Cys Cys Asp
165 170 175

Glu Val Met Ala Lys Asp Pro Thr His Trp Ala Trp Leu Arg Asp Arg
180 185 190

Pro Ile His His Ser Gly Ala Leu Arg Gly Tyr Leu Arg Asn Glu Asp
195 200 205

Asp Phe Phe Pro Arg Gly Pro Gly Leu Thr Pro Ala Ser Cys Ala Leu
210 215 220

Cys His Lys Ala Ser Val Cys Asp Ser Gly Gly Val Ser His Asp Asp
225 230 235 240

Ser Ser Pro Glu Gln Glu Ile Phe His Tyr Thr Asn Arg Glu Trp Ser
245 250 255

Gln Glu Leu Leu Ile Leu Pro Pro Glu Leu Leu Leu Asp Pro Glu Ser

260

265

270

Thr Tyr Asp Ile His Ile Phe Gln Glu Pro Leu Val Gly Leu Glu Pro
275 280 285

Asp Gly Ala Ala Leu Glu Trp His His Leu
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